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 **Global Earth Observation  
System of Systems (GEOSS)/ Asian  
Water Cycle Initiative (AWCI)  
Bhutan Punatsangchhu Basin data**

## 1. IDENTIFICATION INFORMATION

Name	Global Earth Observation System of Systems (GEOSS)/ Asian Water Cycle Initiative (AWCI) Bhutan Punatsangchhu Basin data
Metadata Identifier	AWCI_Bhutan_Punatsangchhu20230727064835-DIAS20221121113753-en

## 2. CONTACT

### 2.1 CONTACT on DATASET

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### 2.2 CONTACT on PROJECT

#### 2.2.1 Data Integration and Analysis System

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## 3. DOCUMENT AUTHOR

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## 4. DATASET CREATOR

Name	Karma Chhopel
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Organization	Department of Energy, Ministry of Economic Affairs
E-mail	chhophel@gmail.com

## 5. DATE OF THIS DOCUMENT

2023-07-27

## 6. DATE OF DATASET

creation : 2012-03-30

## 7. DATASET OVERVIEW

### 7.1 Abstract

The Punatsangchhu river basin is the second largest in Bhutan and very important from an economic point of view. Punakha-Wangdue is one of the most fertile valleys. In addition, the biggest hydropower plants are also planned in this basin. On the other hand, the frequent glacier melt increases the risk of glacial lake outburst floods (GLOF) and then decreasing flow in the rivers afterwards.

### 7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

### 7.3 Temporal Extent

Begin Date	1989-01-01
End Date	2008-12-31
Temporal Characteristics	Daily

### 7.4 Geographic Bounding Box

North latitude bound	27.900
West longitude bound	89.716
Eastbound longitude	90.183
South latitude bound	26.768

### 7.5 Grid

### 7.6 Geographic Description

### 7.7 Keywords

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## 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
discipline	floods, AWCI	No_Dictionary

## 7.7.2 Keywords on Project

### 7.7.2.1 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS &gt; Data Integration and Analysis System	No_Dictionary

## 7.8 Online Resource

: <http://monsoon.t.u-tokyo.ac.jp/AWCI/>

file download : <https://data.diasjp.net/dl/storages/filelist/dataset:185>

## 7.9 Data Environmental Information

## 7.10 Distribution Information

name	version	specification
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## 8. DATA PROCESSING

### 8.1 Data Processing (1)

8.1.1 General Explanation of the data producer's knowledge about the lineage of a dataset

#### 8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used
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## 9. DATA REMARKS

## 10. DATA POLICY

### 10.1 Data Policy by the Data Provider

[Data Policy]

1) Release of Data in Compliance with WMO Resolution 40 (CG-XII) and WMO Resolution 25 (CG-XIII)

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2) No Commercial Use or Exploitation

3) No Data Transfer to Third Parties

AWCI data policy is described at <http://monsoon.t.u-tokyo.ac.jp/AWCI/doc/DataPolicy.pdf>.

[Reference Requirements]

Whenever GEOSS AWCI data distributed by DIAS are being used for publication of scientific results, the data's origin must be acknowledged and referenced.

A minimum requirement is to reference GEOSS AWCI and the DIAS. If only data from one river basin (or a limited number of river basins) has been used, additional acknowledgement to the river basin(s) and its (their) maintaining institutions or organizations shall be given.

Data users of GEOSS AWCI data are encouraged to establish direct contact with the data providers for the purpose of complete interpretation and analysis of data for publication purposes.

## 10.2 Data Policy by the Project

### 10.2.1 Data Integration and Analysis System

If data provider does not have data policy, DIAS Terms of Service (<https://diasjp.net/en/terms/>) and DIAS Privacy Policy (<https://diasjp.net/en/privacy/>) apply.

If there is a conflict between DIAS Terms of Service and data provider's policy, the data provider's policy shall prevail.

## 11. LICENSE

## 12. DATA SOURCE ACKNOWLEDGEMENT

### 12.1 Acknowledge the Data Provider

### 12.2 Acknowledge the Project

#### 12.2.1 Data Integration and Analysis System

If you plan to use this dataset for a conference presentation, paper, journal article, or report etc., please include acknowledgments referred to following examples. If the data provider describes examples of acknowledgments, include them as well.

" In this study, [Name of Dataset] provided by [Name of Data Provider] was utilized. This dataset was also collected and provided under the Data Integration and Analysis System (DIAS), which was developed and operated by a project supported by the Ministry of Education, Culture, Sports, Science and Technology. "

## 13. REFERENCES